

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2005/000133

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 H04L 12/56**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G06F, H04L, H04Q, H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for Inventions since 1975

Korean Utility Models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99/26830 A1 (THOMSON CSF) 27 MAY 1999 see the whole documents	1 - 2
A	US 6,343,326 B2 (NEC USA, INC) 29 Jan 2002 see the whole documents	1 - 2
A	US 6,351,465 B1 (Lucent Technology.) 26 FEB 2002 see the whole documents	1 - 2
A	US 6,424,662 B1 (Hitachi, LTD) 23 JUL 2002 see the whole documents	1 - 2
A	US 2003/0081613 A1 (Masayuki Yamanaka) 1 MAY 2003 see the whole documents	1 - 2

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 FEBRUARY 2005 (22.02.2005)

Date of mailing of the international search report

**23 FEBRUARY 2005 (23.02.2005)**

Name and mailing address of the ISA/KR



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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2005/000133

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 99/26830 A1	27 MAY 1999	EP 1033013 B1	20 AUG 2003
	JP 2001-532920 T2		17 NOV 2001
	FR 2771240 B1		4 FEB 2000
US 6,343,326 B2	29 Jan 2002	WO 99/50602 A1	7 OCT 1999
	EP 00849970 A3		12 JUN 2002
	JP 10-19071		21 JUL 1998
	AU727424 B2		14 DEC 2002
US 6,351,465 B1	26 FEB 2002	US 6,009,097 A	28 DEC 1999
	JP 3338365 B2		28 OCT 2002
	EP 869695 A1		7 OCT 1998
US 6,424,662 B1	23 JUL 2002	JP 2840360 B2	24 DEC 1998
	US 6381571 B1		7 MAY 2002
US 2003/0081613 A1	1 MAY 2003	JP 2003-143189 A2	16 MAY 2003